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Konopitzky *et al.*
Appl. No. 09/631,863*Amendments to the Claims*

1. (Original) A tumor-associated antigen (TAA) comprising the amino acid sequence of SEQ ID NO:2.

2. (Original) A tumor-associated antigen (TAA) designated R11-ORF-1 consisting of the amino acid sequence of SEQ ID NO:2.

3. (Canceled).

4. (Original) The TAA of claim 1 wherein the TAA induces or augments a humoral immune response.

5.- 9. (Canceled)

10. (Withdrawn) A method for treating or preventing cancer in an individual comprising administering to the individual the TAA of claim 1, wherein the TAA induces or augments an immune response in the individual against tumor cells which express R11.

11. (Canceled).

12. (Withdrawn) A method for treating or preventing cancer in an individual comprising:

(a) incubating cytotoxic T lymphocyte precursor cells (CTLs) with antigen presenting cells and the tumor-associated antigen (TAA) of claim 1 wherein the CTLs become activated; and

(b) administering the activated CTLs to an individual,

wherein the TAA induces or augments an immune response in the individual against tumor cells which express R11.

13. (Canceled).

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14. (Withdrawn) The method of ~~any one of claim~~[[s]] 10 or 12 [[to 13]] wherein the individual is a human.

15. (Withdrawn) The method of ~~any one of claim~~[[s]] 10 or 12 [[to 13]] wherein the cancer is selected from the group consisting of kidney carcinoma, breast carcinoma and pancreatic carcinoma.

16. (Withdrawn) The method of claim 10 [[or 11]] wherein the tumor-associated antigen ~~or the immunogenic protein fragment~~ is administered parenterally, topically, orally, or locally.

17. - 44. (Canceled).

45. (Withdrawn) A method of producing a protein comprising:

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(a) growing a [[the]] recombinant cell ~~of claim~~ [[44]] containing a recombinant nucleic acid vector comprising a nucleotide sequence encoding a protein or protein fragment, such that the protein or protein fragment is expressed by the cell, wherein said protein or protein fragment displays one or more functional activities of the TAA of claim 1; and

(b) recovering the expressed protein or protein fragment.

46. (Withdrawn) A method for treating or preventing cancer comprising administering to an individual a therapeutic or prophylactic amount of a [[the]] nucleic acid ~~of any of claims 38 to 42~~, comprising a nucleotide sequence encoding a protein or protein fragment, wherein said protein or protein fragment displays one or more functional activities of the TAA of claim 1, and wherein the nucleic acid induces or augments an immune response in the individual against tumor cells which express R11.

47. - 51. (Canceled).

52. (Withdrawn) A method for treating or preventing cancer comprising administering an [[the]] antibody which specifically binds the tumor-associated antigen

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of claim 1 or 2 of ~~claim 48~~, wherein the antibody induces or augments an immune response in an ~~[[the]]~~ individual against tumor cells which express R11.

53. (Canceled).

54. (Withdrawn) A method of diagnosing or screening for cancer comprising detecting or measuring in a sample derived from an individual the level of the TAA of ~~any one of claim~~ ~~[[s]]~~ 1 ~~[[,]]~~ or 2 ~~or 18~~, wherein an increase in the level of the TAA or nucleic acid encoding the TAA indicates the presence of cancer associated with the expression of the TAA.

55. (Withdrawn) A method for detecting tumor cells that express the TAA of ~~any one of claim~~ ~~[[s]]~~ 1 ~~[[,]]~~ or 2 ~~or 18~~ in an individual, comprising imaging said individual after administration to said individual of a labeled molecule which specifically binds to the TAA, wherein detection of the labeled molecule above background indicates the presence of a tumor that expresses the TAA.

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56. (Withdrawn) The method of claim 55 wherein the labeled molecule is an antibody or a portion of said antibody containing the binding domain thereof which specifically binds a polypeptide comprising the amino acid sequence of SEQ ID NO:2 ~~or~~ ~~SEQ ID NO:3~~.

57. (Withdrawn) The method of claim 55 wherein the labeled molecule is a polypeptide comprising the amino acid sequence of SEQ ID NO:2 ~~or~~ ~~SEQ ID NO:3~~.

58. (Canceled).

59. (New) A method of producing a protein comprising:

(a) growing a recombinant cell containing a recombinant nucleic acid vector comprising a nucleotide sequence encoding the TAA of claim 2, such that a TAA protein is expressed by the cell; and

(b) recovering the expressed protein.

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60. (New) A method for treating or preventing cancer comprising administering to an individual a therapeutic or prophylactic amount of a nucleic acid comprising a nucleotide sequence encoding the TAA of claim 2, wherein the nucleic acid induces or augments an immune response in the individual against tumor cells which express R11.

This listing of claims will replace all prior versions and listings of claims in the application.